AMENDMENTS TO THE CLAIMS

1. (Original) An apparatus for providing an output reference voltage across two nodes, comprising:

a voltage divider circuit that is coupled between the two nodes, wherein the voltage divider circuit is configured to provide the output reference voltage from a bandgap reference voltage, and wherein a controllable portion of the voltage divider circuit is arranged to calibrate the output voltage by adjusting a controllable temperature coefficient of an impedance of the controllable portion in response to a trim signal.

- 2. (Original) The apparatus of Claim 1, further comprising a bandgap reference circuit that is arranged to provide the bandgap reference voltage across a biased portion of the voltage divider circuit.
- 3. (Original) The apparatus of claim 2, wherein the biased portion is at least one of: distinct from the controllable portion, at least part of the controllable portion, and overlapping with the controllable portion in part.
- 4. (Original) The apparatus of Claim 1, wherein the controllable portion includes at least one switch that is configured to open and close in response to the trim signal.
- 5. (Original) The apparatus of Claim 1, wherein the controllable portion includes a plurality of load elements, and wherein the controllable portion is arranged such that at least one of the plurality of load elements is selected in response to the trim signal.
- 6. (Original) The apparatus of Claim 1, wherein the controllable portion includes at least one resistor digital-to-analog converter circuit.

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- 7. (Original) The apparatus of Claim 1, wherein the voltage divider circuit is configured to provide a current through the voltage divider circuit in response to the bandgap reference voltage, wherein the current is approximately independent of temperature.
- 8. (Original) The apparatus of Claim 1, wherein the adjustable temperature coefficient is a second-order temperature coefficient.
- 9. (Original) The apparatus of Claim 8, wherein a first-order temperature coefficient and a zeroth-order temperature coefficient of the impedance of the controllable portion are each substantially independent of the trim signal.
- 10. (Original) The apparatus of Claim 8, wherein the controllable portion includes at least two resistors having substantially different second-order temperatures coefficients.
- 11. (Original) The apparatus of Claim 8, wherein the controllable portion includes a first plurality of resistors and a second plurality of resistors, wherein each of the first plurality of resistors corresponds to a first type of resistor, each of the second plurality of resistors corresponds to a second type of resistor, a second-order temperature coefficient of the first type of resistor is substantially different from a second order temperature coefficient of the second type of resistor, and the zeroth-order temperature coefficient of the first type of resistor is substantially similar to the zeroth-order coefficient of the second type of resistor.
- 12. (Original) The apparatus of Claim 11, wherein the controllable portion further includes a plurality of switches, and wherein the plurality of switches and the first and second plurality of resistors are arranged as a resistor digital-to-analog converter circuit.
- 13. (Original) The apparatus of Claim 12, wherein the controllable portion further includes another resistor that is coupled in series with the resistor digital-to-analog converter circuit, wherein the other resistor corresponds to another type of resistor.

14. (Currently Amended) A method for providing an output reference voltage, comprising: applying a bandgap reference voltage across a biased portion of a voltage divider circuit to provide a reference voltage; and

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calibrating the reference voltage, wherein calibrating the reference voltage includes adjusting a controllable portion of the voltage divider circuit <u>based on a trim signal</u>, such that a <u>zeroth-order temperature coefficient of a resistance of the controllable portion is substantially independent of the trim signal</u>.

- 15. (Original) The method of Claim 14, wherein the controllable portion includes a plurality of load elements, and wherein adjusting of the controllable portion includes: selecting a load element of the plurality that has a desirable temperature coefficient.
- 16. (Original) The method of Claim 14, wherein adjusting the controllable portion includes: adjusting an adjustable temperature coefficient of an impedance of the controllable portion.
- 17. (Original) The method of Claim 16, wherein the adjustable portion includes a resistor digital-to-analog converter, adjusting the adjustable temperature coefficient includes:

providing a first trim signal to the resistor digital-to-analog converter to close at least one of a plurality of switches, and wherein

calibrating the reference voltage further includes:

sensing the output voltage at a plurality of temperatures;

determining whether the reference signal has been substantially calibrated for the adjustable temperature coefficient based on the sensed output voltage; and,

if not, providing a second trim signal to the resistor digital-to-analog converter to close another one of the plurality of switches.

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- 18. (Original) The method of Claim 16, wherein the adjustable temperature coefficient is a second-order temperature coefficient.
- 19. (Original) The method of Claim 18, further comprising: calibrating a first-order coefficient of the reference voltage, before adjusting the second-order temperature coefficient of the controllable portion.
- 20. (Currently Amended) An apparatus for providing an output reference voltage, comprising: a means for applying a bandgap reference voltage across a biased portion of a voltage divider circuit to provide a reference voltage; and

a means for calibrating the reference voltage, wherein the means for calibrating the reference voltage includes a means for a controllable portion of the voltage divider circuit <u>based on a trim</u> signal, such that a zeroth-order temperature coefficient of a resistance of the controllable portion is substantially independent of the trim signal.

21. (New) The apparatus of Claim 1, wherein a zeroth-order temperature coefficient of the impedance of the controllable portion is substantially independent of the trim signal.